

Tao Cui

List of Publications by Year in descending order

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46
papers

1,431
citations

567281

15
h-index

580821

25
g-index

46
all docs

46
docs citations

46
times ranked

1082
citing authors

#	ARTICLE	IF	CITATIONS
1	On channel estimation and optimal training design for amplify and forward relay networks. IEEE Transactions on Wireless Communications, 2008, 7, 1907-1916.	9.2	396
2	Distributed Space-Time Coding for Two-Way Wireless Relay Networks. IEEE Transactions on Signal Processing, 2009, 57, 658-671.	5.3	189
3	An efficient generalized sphere decoder for rank-deficient MIMO systems. IEEE Communications Letters, 2005, 9, 423-425.	4.1	129
4	Optimal Training Design for Channel Estimation in Decode-and-Forward Relay Networks With Individual and Total Power Constraints. IEEE Transactions on Signal Processing, 2008, 56, 5937-5949.	5.3	75
5	Differential modulation for two-way wireless communications: a perspective of differential network coding at the physical layer. IEEE Transactions on Communications, 2009, 57, 2977-2987.	7.8	74
6	On Secure Network Coding With Nonuniform or Restricted Wiretap Sets. IEEE Transactions on Information Theory, 2013, 59, 166-176.	2.4	73
7	Joint Frequency Offset and Channel Estimation for OFDM Systems Using Pilot Symbols and Virtual Carriers. IEEE Transactions on Wireless Communications, 2007, 6, 1193-1202.	9.2	47
8	Semiblind Channel Estimation and Data Detection for OFDM Systems With Optimal Pilot Design. IEEE Transactions on Communications, 2007, 55, 1053-1062.	7.8	35
9	Improved K-Best Sphere Detection for Uncoded and Coded MIMO Systems. IEEE Wireless Communications Letters, 2012, 1, 472-475.	5.0	30
10	Probability-Distribution-Based Node Pruning for Sphere Decoding. IEEE Transactions on Vehicular Technology, 2013, 62, 1586-1596.	6.3	30
11	Optimization of Cooperative Spectrum Sensing in Cognitive Radio. IEEE Transactions on Vehicular Technology, 2011, 60, 1578-1589.	6.3	28
12	Space-Time Communication Protocols for N-Way Relay Networks. , 2008, , .		26
13	Efficient Blind Receiver Design for Orthogonal Space-Time Block Codes. IEEE Transactions on Wireless Communications, 2007, 6, 1890-1899.	9.2	25
14	Bound-Intersection Detection for Multiple-Symbol Differential Unitary Space-Time Modulation. IEEE Transactions on Communications, 2005, 53, 2114-2123.	7.8	24
15	Maximum likelihood based estimation of frequency and phase offset in DCT OFDM systems under non-circular transmissions: algorithms, analysis and comparisons. IEEE Transactions on Communications, 2008, 56, 1425-1429.	7.8	21
16	Throughput Optimization in High Speed Downlink Packet Access (HSDPA). IEEE Transactions on Wireless Communications, 2011, 10, 474-483.	9.2	19
17	Some results on relay strategies for memoryless two-way relay channels. , 2008, , .		18
18	Optimal Training Design for Channel Estimation in Amplify and Forward Relay Networks. , 2007, , .		17

#	ARTICLE	IF	CITATIONS
19	OFDM channel estimation and data detection with superimposed pilots. European Transactions on Telecommunications, 2011, 22, 125-136.	1.2	15
20	Physical Layer Differential Network Coding for Two-Way Relay Channels. , 2008, , .		13
21	Blind Receiver Design for OFDM Systems Over Doubly Selective Channels. IEEE Transactions on Communications, 2007, 55, 906-917.	7.8	12
22	Minimum Cost Integral Network Coding. , 2007, , .		11
23	On secure network coding with unequal link capacities and restricted wiretapping sets. , 2010, , .		11
24	Linear Programming Detection and Decoding for MIMO Systems. , 2006, , .		10
25	Achievable strategies for general secure network coding. , 2010, , .		10
26	Communication Protocols for N-way All-Cast Relay Networks. IEEE Transactions on Communications, 2012, 60, 3239-3251.	7.8	10
27	Maximum likelihood detection for differential unitary space-time modulation with carrier frequency offset. IEEE Transactions on Communications, 2008, 56, 1881-1891.	7.8	9
28	First Order Adaptive IIR Filter for CQI Prediction in HSDPA. , 2010, , .		9
29	Moment-Based Parameter Estimation and Blind Spectrum Sensing for Quadrature Amplitude Modulation. IEEE Transactions on Communications, 2011, 59, 613-623.	7.8	9
30	Iterative Demodulation and Decoding Algorithm for 3GPP/LTE-A MIMO-OFDM Using Distribution Approximation. IEEE Transactions on Wireless Communications, 2018, 17, 1331-1342.	9.2	9
31	On Multiple Symbol Detection for Diagonal DUSTM Over Ricean Channels. IEEE Transactions on Wireless Communications, 2008, 7, 1146-1151.	9.2	8
32	Achievable rate and optimal physical layer rate allocation in interference-free wireless networks. , 2009, , .		8
33	Constrained Detection for Spatial-Multiplexing Multiple-Inputâ€“Multiple-Output Systems. IEEE Transactions on Vehicular Technology, 2008, 57, 1537-1547.	6.3	6
34	Multiple-Symbol Differential Detection for Single-Antenna and Multiple-Antenna Systems over Ricean-fading Channels. , 2006, , .		5
35	Polynomial Moment Relaxation for MIMO Detection. , 2006, , .		4
36	SNRâ€“dependent radius control sphere detection for MIMO systems and relay networks. Transactions on Emerging Telecommunications Technologies, 2015, 26, 389-402.	3.9	3

#	ARTICLE	IF	CITATIONS
37	Heuristic Tree Search for Detection and Decoding of Uncoded and Linear Block Coded Communication Systems. , 2006, , .		2
38	Analysis and Optimization of Pilot Symbol-Assisted Rake Receivers for DS-CDMA Systems. IEEE Transactions on Vehicular Technology, 2006, 55, 1159-1170.	6.3	2
39	Efficient signal detection for space-time block coding over time-selective fading channels. , 2006, , .		2
40	On multiple access random medium access control. , 2009, , .		2
41	Optimal quantization in energy-constrained sensor networks under imperfect transmission. , 2009, , .		2
42	Efficient blind decoding of orthogonal space-time block codes over time-selective fading channels. , 2006, , .		1
43	Maximum Likelihood Detection and Optimal Code Design for Differential Unitary Space-Time Modulation with Carrier Frequency Offset. , 2007, , .		1
44	Decentralized estimation over imperfectly-estimated channels in wireless sensor networks. , 2011, , .		1
45	Maximum Likelihood Channel Estimation in Decode-and-Forward Relay Networks. , 2008, , .		0
46	Optimization in distributed cooperative spectrum sensing for cognitive radio. , 2009, , .		0